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IS 8252-18 (1986): Environmental test for aircraft equipment, Part 18 Magnetic influence [TED 14: Aircraft and Space Vehicles]

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UDC 629·73·05 : 620·193 (First Reprint MARCH 1990) IS : 8252 (Part 18) - 1986

Indian Standard (Reaffirmed 2005)

ENVIRONMENTAL TESTS FOR AIRCRAFT EQUIPMENT

PART 18 MAGNETIC INFLUENCE

(First Revision)

Aircraft and Space Vehicles Sectional Committee, EDC 74; Environmental and Operating Conditions for Aircraft Equipment Subcommittee, EDC 74 : 4 [Ref : Doc : EDC 74 (4708)]

1. Scope — Prescribes tests which determine the magnetic effect of the equipment to assist the installation agency in choosing the proper location of the equipment in an aircraft.

2. Definition — For the purpose of this standard, the following definition shall apply.

2.1 *Earth's Magnetic Field* — The earth's magnetic field for this standard will have a horizontal intensity of 14·4 A/m (0·18 Gauss) ±10 percent.

3. Test Procedure

3.1 The magnetic effect of the equipment shall be determined in terms of deflection of a free magnet (example—uncompensated compass) in a magnetic field, having a horizontal intensity of 14·4 A/m (0·18 Gauss) ±10 percent (earth's magnetic field) when the equipment under test is positioned on the east-west line from the pivot of the magnet.

3.2 With the equipment operated in the steady state mode which produce the maximum magnetic deflection and also oriented to produce the maximum magnetic deflection, measure the distance between the magnetic pivot and the nearest part of the equipment at which the deflection of 1 degree exists.

3.3 *Performance Requirement* — The equipment performance requirement according to their classification is shown below:

Equipment Class	*Distance for a deflection of 1 degree*
Z	Less than 0·3 m
A	Between 0·3 m and 1·0 m
B	Between 1·0 m and 3·0 m
C	Greater than 3·0 m
X	Equipment not tested is defined as Class X.

Note 1 — To determine the distance accurately, plot curves of magnetic deflection against distance for readings taken at intervals while moving the equipment first toward and then away from the magnet.

Note 2 — Class A equipment is normally acceptable for installation in the aircraft instrument panel.

Note 3 — Unless otherwise specified, the requirement for a specific class is met if the established distance for 1° deflection is or less than the distances specified for the class.

EXPLANATORY NOTE

This standard was first issued in 1978. In this revision the performance requirement for the different classes of equipment has been specified.

This standard is one in the series of Indian Standards relating to environmental and operating conditions for aircraft equipment. The scope and applicability of the series of standards are outlined in IS : 8252 (Part 1)-1976 'Environmental tests for aircraft equipment : Part 1 General'.

While preparing this standard assistance has been derived from RTCA/DO-160A and EUROCAE/ED-14A corresponding to ISO 7137-1981.

Adopted 1 April 1986
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